

# **CONCEPTS and TOPICS for CONSIDERATION for REGULATIONS GOVERNING PERFORMANCE-BASED ONSITE SEWAGE DESIGNS**

## **Mission statement**

Historical perspective

Definitions

Treatment standards: primary, secondary, tertiary

[is there validity for an 'advanced secondary ' onsite standard ? its basis was disinfection goals for stream discharges ]

Performance expectations : BOD<sub>5</sub>; TSS; fecal coliform [or E. coli?] Is it appropriate to use stream based parameters for an onsite system?

Soil classes: [ relate treatment to soil class?]

Depth to water table: [ how to handle GMP 146 zero water table installations?]

Depth to impervious layers: pans

Depth to bedrock and its various implications [ pervious vs. impervious]

Hydraulic loading rates

Organic loading rates

Nutrients [ammonia, nitrates, ....] [consider this now?] [establish goals?]

Disinfection

Monitoring: frequency; reporting; violations; enforcement

VDH role versus DPOR

System size [residential less than 1000 gpd; separate regs for mass drainfields and mega systems?]

Review the regulations of other states with similar onsite programs